Docusign Envelope ID: 247533BC-4552-83FB-8134-F1A4B74B2D2C

PROJECT REFERENCE NO.	SHEET NO.
BP14-R014	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

NAD 83/2011

-Y-	
PI Sta 10+66.18	PI Sta 13+03.73
△ = 34° 23' 54.2" (RT)	△ = 13° 25' 25.5" (LT)
D = 26° 47' 49.3"	D = 8° 09' 05.0"
L = 128.37'	L = 164.68'
T = 66.18'	T = 82.72'
R = 213.81'	R = 702.90'
e = EXIST	e = EXIST
DS = EXIST	DS = EXIST

-L-	-DR1-
PI Sta 11+50.55	PI Sta 10+31.59
△ = 80° 21' 07.9" (LT)	△ = 37° 37' 57.4" (LT)
D = 70° 44' 07.9"	D = 114° 35' 29.6"
L = 113.60'	L = 32.84'
T = 68.39'	T = 17.04'
R = 81.00'	R = 50.00'
e = 0.06	
DS = 20 MPH	
-DR1-	
PI Sta 10+62.90	PI Sta 10+98.11
△ = 34° 27' 26.1" (RT)	△ = 18° 21' 21.8" (RT)
D = 114° 35' 29.6"	D = 114° 35' 29.6"
L = 30.07'	L = 16.02'
T = 15.50'	T = 8.08'
R = 50.00'	R = 50.00'

DATUM DESCRIPTION

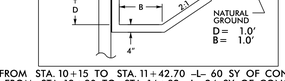
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "860152 GPS-101" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 623299.033(ft) EASTING: 667357.859(ft) ELEVATION: 1973.379(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997853902 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "860152 GPS-101" TO -L- STATION 10+00.00 IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.
STA 10+20 RT -L- TO STA 10+40 LT -DR1-

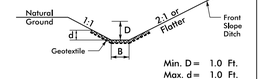
INSTALL MATTING FOR EROSION CONTROL ON SLOPE AS WORK ALLOWS.
STA 11+00 TO STA 12+00 -L- RT
STA 12+70 TO 14+62 -L- LT
STA 12+80 TO 14+34 -L- RT
STA 11+00 RT -L- TO STA 10+00 LT -DR1-

DETAIL D
CONCRETE DITCH BEHIND RETAINING WALL
(Not to Scale)



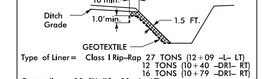
FROM STA. 10+15 TO STA. 11+42.70 -L- 60 SY OF CONCRETE
FROM STA. 13+80 TO STA. 14+32 -L- 24 SY OF CONCRETE

DETAIL B
SPECIAL CUT BASE DITCH
(Not to Scale)



Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
Type of Liner= Class B Rip-Rap (5 TONS, 7 SY)
FROM STA. 10+20 TO STA. 10+40 -DR1- LT

DETAIL C
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= Class I Rip-Rap 27 TONS (12+09 -L- LT)
12 TONS (10+40 -DR1- RT)
16 TONS (10+79 -DR1- RT)
Geotextile= 28 SY (12+09 -L- LT)
13 SY (10+40 -DR1- RT)
17 SY (10+79 -DR1- RT)
STA. 12+09 -L- LT
STA. 10+40 -DR1- RT
STA. 10+79 -DR1- RT

BEGIN CONSTRUCTION
-L- STA. 9+21.00
BEGIN TIP PROJECT BP14-R014
-L- STA. 10+00.00
BEGIN APPROACH SLAB
-L- STA. 11+88.81
BEGIN BRIDGE
-L- STA. 11+99.70
END APPROACH SLAB
-L- STA. 13+02.82
END BRIDGE
-L- STA. 12+91.95
END CONSTRUCTION
-L- Sta. 14+63.95
BEGIN CONSTRUCTION
-DR1- STA. 10+10.00
END VALLEY GUTTER
-DR1- STA. 10+60.00
BEGIN VALLEY GUTTER
-L- STA. 10+25.00
TYING TO EXIST. GUARDRAIL
-L- STA. 14+61.32
BEGIN CONSTRUCTION
TIE TO EXISTING
-L- Sta. 14+63.10

DO NOT DISTURB WELL
DO NOT DISTURB WATERLINE
SEE ANCHOR DETAIL FOR PAVED SHOULDER AND SBG
SPECIAL CUT BASE DITCH
10+20 TO 10+40 -DR1- RT
SEE DETAIL B
RIP RAP AT EMBANKMENT
10+60 -DR1- RT
SEE DETAIL C
RIP RAP AT EMBANKMENT
10+40 -DR1- RT
SEE DETAIL C
RIP RAP AT EMBANKMENT
12+15 -L- LT
SEE DETAIL C
CONCRETE DITCH BEHIND RETAINING WALL #1
SEE DETAIL D

RETAINING WALL #2
RETAINING WALL #3
TYPE III SHOP CURVED
TYPE III SHOP CURVED
TYPE III
REMOVE
RELOCATE
RETAIN
CLOER RD. NO OUTLET

GRADY T. JONES LIFE ESTATE
DB 344 PG 370
DB 150 PG 151

KARLA J. COLE
DB 344 PG 367

RACHEL M. JONES
KARLA J. COLE
DB 410 PG 662

ALAN ROCKY SAMPSON
LISA SMITH BUCHANAN
DB 401 PG 340

DENNIS SMITH
DB 215 PG 356

DENNIS L. & REBECCA L. TAYLOR
DB 318 PG 699

JAMES & CAROLYN CLOER
DB 138 PG 38

TINA BERNICE JONES SITTON & KENNETH SITTON, JR.
DB 150 PG 147

GRADY T. JONES LIFE ESTATE
DB 150 PG 151
DB 150 PG 154
DB 150 PG 157

ROY ELMER & LAUREN WILLIAMSON
DB 194 PG 585

BM-2 ELEV. = 1973.03
-BL- 5+38.00 15 RIGHT
RANCH TIE SPIKE IN 12" POPLAR

PAVED SHLD.

UTILITY OWNERS

DUKE ENERGY
957 SPARTANBURG HWY.
HENDERSONVILLE, NC 28792

FRONTIER COMMUNICATIONS
1058 WEST CLUB BLVD
SUITE 518
DURHAM, NC 27701

5/14/99
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